



Australian Government

Department of Education, Employment and Workplace Relations

LMTDE3001A Apply hooping and fabric handling techniques

Release: 1

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Modification History

New unit

Unit Descriptor

This unit of competency covers the skills and knowledge required to prepare fabric for final stitching on an embroidery machine. It includes hoop selection and use.

Application of the Unit

Work involves some discretion, initiative and judgement on the job in own work, including liaison with specialist embroiderers.

Work may be conducted in a variety of environments, such as operational workplace activities, or home-based activities.

Work may be undertaken on a range of machines that may include microprocessor or computer control.

Embroidery machines used in completion of this unit may include domestic (single or multi-needle) or commercial (single or multi-head) machines.

Work may be conducted in small to large scale enterprises and may involve individual and team activities. Work is performed within defined procedures under limited supervision.

This unit requires the application of skills associated with problem solving to select and prepare fabrics and hoops. Learning and self-management skills are required to apply knowledge of materials and fabrics, and communication skills are used to interpret job requirements.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

LMTCL2003B Identify fibres and fabrics

Employability Skills Information

This unit contains employability skills

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

1	Confirm work requirements	1.1	Digitised design file, of not more than six colours, is selected and specific requirements of the article to be embroidered are established
		1.2	Material and equipment requirements are determined and accessed
		1.3	Any special requirements to complete the embroidery are established
2	Prepare for machine work	2.1	Embroidery dimensions are determined and appropriate hoop type is selected
		2.2	Fabric to be embroidered is selected and properties checked for suitability to work requirements
		2.3	Thread and needle types to be used to create the embroidery are selected and loaded for machine use
3	Select stabilisers, toppings and backings	3.1	Stabiliser requirements are assessed and stabiliser is selected
		3.2	The need for additional toppings and backings is established and selected
		3.3	Stabilisers and fabric and hoop are combined to meet machine recommendations
4	Stitch the embroidery	4.1	Hoop is mounted onto the machine according to manufacturer recommendations
		4.2	Fabric is handled appropriately with regards to its

properties

- 4.3 Embroidery is stitched and inspected against job specifications
- 4.4 Waste is minimised and disposed of according to environmental guidelines
- 4.5 Work is conducted in accordance with ***workplace procedures*** and ***occupational health and safety (OHS) practices***

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills include:

- applying workplace health and safety requirements for a production environment
- applying basic sewing machine skills
- using computer basic operations
- accessing an embroidery design
- assembling and attaching hoop
- applying hooping techniques
- using hooping accessories
- using and loading needles
- selecting and loading thread
- using stabilisers
- reading, interpreting and following information on work specifications, standard operating procedures and work instructions, and other reference material
- maintaining accurate records
- communicating within the workplace
- sequencing operations
- meeting specifications
- clarifying and checking task-related information

Required knowledge includes:

- workplace health and safety requirements for a production environment
- software navigation to access images
- basic machine embroidery techniques
- fabric types and properties
- hoop types and uses
- needle types and uses
- thread types and uses
- stabiliser types and uses
- environmental aspects related to workplace and machine or equipment operation and manual handling
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices

- practices for recording and reporting

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria required skills and knowledge range statement and the Assessment Guidelines for the Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

It is essential that competence be demonstrated in preparing fabric for final stitching on an embroidery machine. The candidate must be able to:

- select correct hoop
- identify fabric properties
- select stabilisers, toppings and backings
- stitch the embroidery.

Evidence should demonstrate the candidate's ability to prepare fabric for final stitching on an embroidery machine through production of sample pieces using woven, non-woven, knitted, lightweight and heavyweight fabrics.

Context of and specific resources for assessment

Assessment may occur on the job or in an appropriately simulated environment and requires access to work areas, materials and equipment and to information on workplace practices and OHS practices.

The resource requirements for this unit include access to:

- embroidery machines (single and multi-needle)
- computer equipment
- software
- machine hoops
- a range of fabrics
- a range of threads
- a range of needles
- hooping accessories.

Method of assessment

This unit may be assessed independently or in combination with other relevant units.

Assessment methods may include:

- written and oral questioning
- completion of practical activities/tasks.

Guidance information for assessment

Assessment processes and techniques must be culturally appropriate and appropriate to the language and literacy capacity of the candidate and the work being performed.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Hoop types

Hoop types may include:

- tubular
- sash
- screw
- cap
- square
- round
- spring

Fabric types

Fabric types must include:

- wovens
- non-wovens
- knits
- lightweight
- heavyweight

Fabric properties

Fabric properties include:

- density
- stretchability
- stretch direction

Threads types

Threads types must include:

- polyester
- metallic
- rayon
- cotton

Needle types

Needle types must include:

- standard
- metalfil
- embroidery eye
- stretch
- and may include:

	• specialist needles for microfibres, knits or metallic fabric/threads
Stabilisers, toppings and backings	Stabilisers, toppings and backings must include: • water soluble • tear away • iron on • cut away Colours may include: • black • white Weights may vary
Workplace procedures	Workplace procedures may include: • requirements prescribed by legislation, awards, agreements and conditions of employment • standard operating procedures • work instructions • oral, written and visual communication • quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output • housekeeping • tasks related to environmental protection, waste disposal, pollution control and recycling
OHS practices	OHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit, and may include: • manual handling techniques • standard operating procedures • personal protective equipment • safe materials handling • taking of rest breaks • ergonomic arrangement of workplaces • following marked walkways • safe storage of equipment • housekeeping • reporting accidents and incidents • other OHS practices relevant to the job and enterprise

Unit Sector(s)

Digitising and computerised embroidery

Custom Content Section

Not applicable.